

AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings of the claims in the application:

1. (Original) A method of generating signals in a drug delivering apparatus through which a person inhales to generate an inhaled airstream, comprising the steps of:
 - detecting the commencement of inhalation;
 - signalling to the person to cease inhalation after a pre-set period of time has elapsed from the detection of the commencement of breathing; and
 - adjusting the pre-set period of time for subsequent inhalations depending on the time the person takes to stop inhaling after being signalled.
2. (Original) A method according to claim 1, wherein the pre-set period of time is increased if the time taken to stop inhaling exceeds a first threshold time.
3. (Currently Amended) A method according to claim 1 ~~or 2~~, wherein the first pre-set period of time is decreased if the time taken to stop inhaling is less than a second threshold time.
4. (Currently Amended) A method according to claim ~~2~~3, wherein the first pre-set period of time is decreased if the time taken to stop inhaling is less than a second threshold time and wherein the first threshold time is greater than or equal to the second threshold time.
5. (Currently Amended) A method according to ~~anyone of claims 2 to 4~~ claim 2, wherein the first threshold time is about 0.5 seconds.
6. (Currently Amended) A method according to ~~claims~~ claim 5, wherein the first threshold time is in the range of 0.25 to 0.75 seconds.

7. (Original) A method according to claim 5, wherein the first threshold time is in the range of 0.35 to 0.65 seconds.

8. (Original) A method according to claim 5, wherein the first threshold time is in the range of 0.45 to 0.55 seconds.

9. (Currently Amended) A method according to ~~any one of claims 3 to 8~~ claim 3, wherein the second threshold time is about 0.3 seconds.

10. (Original) A method according to claim 9, wherein the second threshold time is in the range of -0.2 to 0.5 seconds.

11. (Original) A method according to claim 9, wherein the second threshold time is in the range of 0 to 0.4 seconds.

12. (Original) A method according to claim 9, wherein the second threshold time is in the range of 0.25 to 0.35 seconds.

13. (Currently Amended) A method according to ~~any one of the preceding claims~~ claim 1, wherein the method further comprises ~~comprising~~ the steps of: detecting the end of inhalation; and calculating the period of inhalation and the period ~~of exhalation~~ between inhalations.

14. (Currently Amended) A method according to claim 13, wherein the method further comprises ~~comprising~~ the step of calculating the I:E ratio, and if it is greater than a third threshold, increasing the pre-set period of time.

15. (Original) A method according to claim 14, wherein the third threshold is about one.

16. (Currently Amended) A method according to ~~any one of claims 13 to 15~~ claim 13, further comprising the step of calculating the I:E ratio, and if it is less than a fourth threshold, decreasing the pre-set period of time.

17. (Original) A method according to claim 16, wherein the fourth threshold is about one third.

18. (Currently Amended) A method according to ~~any one of the preceding claims~~ claim 1, wherein the method further ~~comprising~~ comprises the step of delivering an aerosolized substance into at least a part of the inhaled airstream. ~~A method according to claim 18, further comprising the step of ceasing aerosol delivery before signalling to the person to cease inhalation.~~

19. (Currently Amended) A method according to claim ~~1927~~, wherein aerosol delivery is ceased at least one second before signalling to the person.

20. (Currently Amended) A method according to claim ~~1927~~, wherein aerosol delivery is ceased at least two seconds before signalling to the person.

21. (Currently Amended) ~~A drug~~ Drug delivery apparatus arranged to deliver aerosolized drug into an inhaled airstream of a person comprising:
an airflow sensor for detecting the inhaled airstream;
a signalling device arranged to give signals to the person; and
a controller arranged to control the operation of the signalling device on the basis of the inhaled airstream detected by the flow sensor, whereby the controller causes the signalling device

to signal to the person to cease inhalation after a pre-set period of time following the detection of inhalation; and adjusts the pre-set period of time for subsequent inhalations depending on the time the person takes to stop inhaling after being signalled.

22. (Currently Amended) An apparatus according to claim ~~22~~21, further comprising an airflow regulator for restricting the speed of the inhaled airstream through the apparatus.

23. (Currently Amended) An apparatus according to claim ~~22~~21, further comprising an aerosol generator for aerosolizing the drug into the inhaled airstream.

24. (Currently Amended) An apparatus according to ~~any one of claims 22 to 24~~ claim 21, wherein the signalling device is any one or more of: an audio device, a visual device and a vibrator device.

25. (Currently Amended) An apparatus according to ~~any one of claims 22 to 25~~ claim 21, wherein the controller includes a calculator arranged to calculate the pre-set period of time.

26. (Currently Amended) An apparatus according to ~~any one of claims 22 to 26~~ claim 21, wherein the controller is formed by a microprocessor.

27. (New) A method according to claim 18, further comprising the step of ceasing aerosol delivery before signaling to the person to cease inhalation.